RSAC 2025 Conference

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Guardians of the Cyber Galaxy: Allies Against AI-Powered Cybercrime

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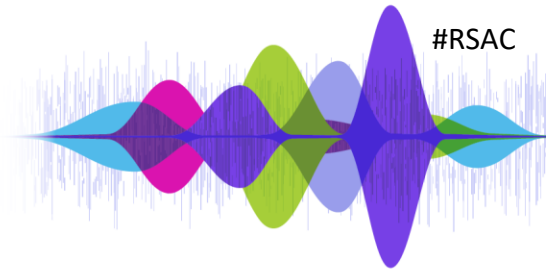

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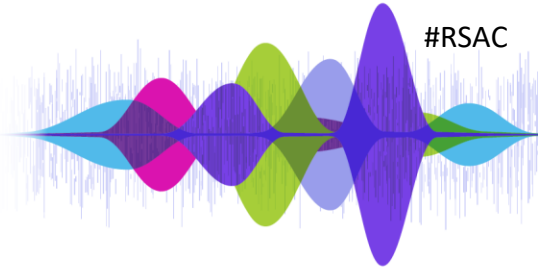
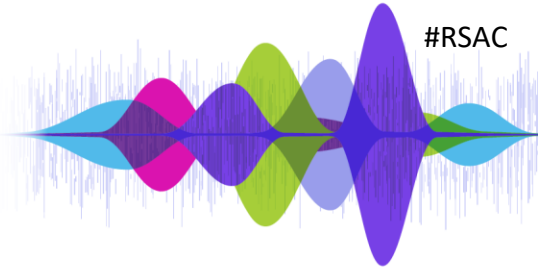
AI in Cybercrime



95%	Costs saved by spammers using LLMs for phishing emails
20,254	AI-generated CSAM images posted to a forum in 1 month
$15k	Amount lost by a victim to an AI voice cloning attack
85%	Identity fraud cases using AI to create fraudulent identities
40%	Phishing emails targeting businesses that are AI-generated

Source: Cobalt, DHS, McAfee

Combatting AI-Powered Cybercrime



Trigger — Attackers are evolving in complexity and are using AI in cybercrime

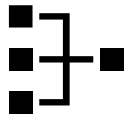
Effect — Usual tactics to defend are no longer effective

Issue — Organizations and law enforcement need better strategies to fight back

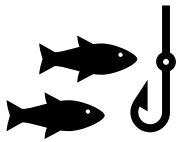
Solution — Public and private sectors should collaborate to fortify defenses against AI-powered cybercrime

AI-Powered Cyber Threats

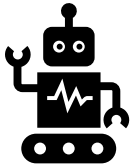
- Malicious activities using AI to increase **effectiveness**, **scale**, and **sophistication**
- **Automates** attacks and **adapts** in real-time
- More **efficiently** evades detection and exploits vulnerabilities



Botnet



Enhanced Phishing Attacks



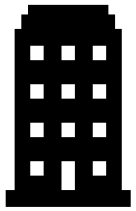
Automated Vulnerability Exploitation

Deepfake Videos and Audios

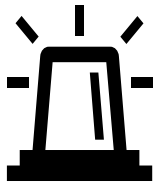
Social Engineering

Smart Malware

Public-Private Partnerships



Private Sector



Law Enforcement

International Stakeholders and Public Entities

- Collaboration between **government agencies** and **private sector** entities
- **Sharing** of information, resources, and expertise
- Develop strategies to prevent, detect, and mitigate cybercrime **collectively**
- **Improve** threat intelligence
- **Enhance** incident response capabilities

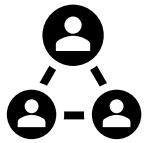
Strategies on Detection, Defense, and Collaboration

Complexity of AI Detection

Awareness of Government Positions & Policies

Protection of Sovereign Data

Affirmative Litigation



Connections with Lesser-Known Resources

Education of Strategies

Apply What You Have Learned Today

Immediate Takeaway Actions

- Establish contact with local FBI field office.
- Review organization policies on parameters for external collaboration and consult legal team on outreach guidance.
- Evaluate AI resources.

Actions to Implement Within 3 Months

- Conduct a thorough assessment of current cybersecurity measures against AI-driven threats.
- Develop a strategy for integrating AI tools to enhance threat detection and response capabilities.
- Participate in opportunities like tabletop exercises on AI that combine experts to address scenarios.
- Organize training sessions for staff on recognizing and responding to AI-enabled cyber attacks.
- Initiate partnerships with external cybersecurity organizations for shared threat intelligence.

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